

KY RIVER AUTHORITY
Proposed Projects Involving the General Fund
(amounts in **bold** are the total budget)

2012-2014

(Projects listed by Cabinet priority; descriptions are from the agency submission)

1. Renovate Locks 1 through 4 **\$6,710,000**

Repair of Locks 1 through 4 "in the wet" (no de-watering the lock chamber) including the following items: remove and repair lock gate structural supports, face metal and hinge system, replacement of timbers which seal the gates from water leakage, renovation of the valves which fill and empty the lock chamber. Additionally, the abutments on the opposite bank from the locks at Dams 1 and 2 will be sloped and armored to prevent erosion and by-pass. This project will provide navigational access between Frankfort and the Ohio River. (C-PI)

CPAB Staff Notes

- *Project includes \$2,610,000 GF; \$2,120,000 RF and \$1,980,000 AB*
- *Budget is based on bids received for Locks 3 and 4 in 2010 with a downsize in scope of repairs. Project appeared in 2010-2016 plan as Renovate Locks 1 and 2 (\$17,000,000 GF)*
- *Locks 1 through 4 were constructed prior to the Civil War. They are masonry construction with the only modifications from original design being the installation of metal lock gates and fill and emptying valves being placed in the gates. The Locks do not meet safety standards for operation.*

KY RIVER AUTHORITY
Proposed Projects Involving Agency Bonds
(amounts in **bold** are the total budget)

2012-2014

(Projects listed by agency priority; descriptions are from the agency submission)

1. Renovate Locks 1 through 4 **\$6,710,000**

Repair of Locks 1 through 4 "in the wet" (no de-watering the lock chamber) including the following items: remove and repair lock gate structural supports, face metal and hinge system, replacement of timbers which seal the gates from water leakage, renovation of the valves which fill and empty the lock chamber. Additionally the abutments on the opposite bank from the locks at Dams 1 and 2 will be sloped and armored to prevent erosion and by-pass. This project will provide navigational access between Frankfort and the Ohio River. (C-PI)

CPAB Staff Notes

- *Project includes \$2,610,000 GF; \$2,120,000 RF and \$1,980,000 AB*

2. Renovate Dam 8 **\$16,500,000 AB**

The dam will be replaced with a cellular structure upstream of the existing dam. This is necessary to safeguard the water supply for the cities of Nicholasville and Lancaster. (C-PI)

CPAB Staff Notes

- *Dam 8 was constructed by the Corps in 1900. It is a timber crib construction with the last major repair occurring in the 1960s. There is evident leakage through and around the Dam. The lock was closed with an abutment wall in 2005.*
- *Project appeared in the 2010-2016 plan as the Repair Dam 8 project (\$2,680,000 AB). The scope has increased significantly and the project has changed. Rather than repair the dam, replacement is planned.*

3. Renovate Lock and Dam 10 Design **\$2,500,000 AB**

Renovation of Lock and Dam 10 was originally a federal project with a state cost share. There have been no federal appropriations to the project for 5 years. The Authority will now undertake the project directly. The design will provide for a new dam with a 6 foot crest gate providing approximately 1.8 billion gallons of new water storage. The existing lock will either be renovated or replaced. The lock renovation was not part of the federal project. Given the additional design needs, two years are provided for design and construction bidding. (C-PI)

CPAB Staff Notes

- *Dam 10 was built in 1905 and has outlived its design life.*
- *This project has been in the planning preliminary design stage since 2001. It has been delayed due to a lack of federal appropriations to back-up the federal project authorization. KRA will now proceed with the project without federal involvement.*

KY RIVER AUTHORITY
Proposed Projects Involving Agency Bonds (Cont'd)

2014-2016

(Projects listed by agency priority)

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|---|--------------|
| 1. Renovate Lock and Dam 10- Construction | \$45,540,000 |
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2016-2018

(Projects listed by agency priority)

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|--------------------------|-------------|
| 1. Repair Dam 6 | \$2,299,000 |
| 2. Repair Dam 7 | 3,081,000 |
| 3. Repair Dams 11 and 14 | 3,102,000 |
| 4. Repair Dam 13 | 3,928,000 |
| 5. Repair Dam 12 | 3,400,000 |
| 6. Repair Dams 4 & 5 | 947,000 |